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**Davis et al.**(10) **Pub. No.: US 2021/0283258 A1**(43) **Pub. Date: Sep. 16, 2021**(54) **TARGETED NANOPARTICLES***A61K 31/4745* (2006.01)(71) Applicant: **California Institute Of Technology,**  
Pasadena, CA (US)*A61K 31/727* (2006.01)*A61K 9/51* (2006.01)*A61K 47/60* (2006.01)*A61K 47/69* (2006.01)(72) Inventors: **Mark E. Davis,** Pasadena, CA (US);  
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(2013.01)(21) Appl. No.: **17/325,292**(22) Filed: **May 20, 2021****Related U.S. Application Data**(63) Continuation of application No. 16/200,095, filed on  
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(57)

**ABSTRACT**

Described herein are carrier nanoparticles comprising a polymer containing a polyol coupled to a polymer containing a nitroboronic boronic acid and a linkage cleavable under reducing conditions, configured to present the polymer containing the nitroboronic acid to an environment external to the nanoparticle. Targeted versions of the described nanoparticles are also described, as are related compositions, methods and systems.

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